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1. N141-009: Autonomous Environmental Sensor Performance Prediction Tool for Multi-Static Active and Passive Anti-Submarine Warfare (ASW) Systems

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop an autonomous Anti-Submarine Warfare (ASW) sensor performance prediction tool that utilizes measured and predicted ocean environmental data retrieved via a network interface. DESCRIPTION: Air ASW sensor systems like the Multi-static Active Coherent"MAC"(SSQ-125) sonobuoy source and ADAR (SSQ-101A/B) receiver to provide coherent pulses and waveform flexibility like doppler-spe ...

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2. N141-010: Development of Analysis Techniques for Predicting Magnetic Anomaly Detection (MAD) Equipped UAV Performance in Naval Anti-Submarine Warfare Environment.

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a software simulation tool, or Tactical Decision Aid (TDA), for predicting the Probability of Detection (Pd) of a Magnetic Anomaly Detection (MAD) equipped Unmanned Aerial Vehicle (UAV) against current submarine threats factoring in the complexities of the MAD system performance, magnetic environmental noise, UAV performance, target parameters and Area of Uncertainty (AOU) DE ...

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3. N141-011: Advancements in Solid Ramjet Fuel Development

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate innovative Solid Fuel Ramjet (SFRJ) technologies based on novel high performance fuels. DESCRIPTION: Air-breathing propulsion, in the form of Liquid Fuel Ramjet (LFRJ) or Solid Fuel Ramjet (SFRJ) systems, is a highly competitive solution to tactical systems requiring long range and/or high speeds. While significant development has occurred, including developm ...

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4. N141-012: Method for the Detection of Voids Underneath Aluminum Matting-2 (AM-2)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a non-invasive void detection method technology with the capability to detect voids underneath aluminum airfield matting (AM-2). DESCRIPTION: The Expeditionary Airfield (EAF) is a shorebased, mobile air base, which permits deployment of landing force aircraft within effective range of ground forces. EAFs rely heavily on fully supported Aluminum Matting - 2 (AM-2) for safe an ...

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5. N141-013: Ruggedized Wideband High Power Balanced Photodiode Receiver

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and package high-power balanced photodiodes for wideband Radio Frequency (RF) photonics receiver applications. DESCRIPTION: The need for compact ruggedized microwave photonic links arises in avionic platforms as photonics continues to provide unique solutions in a wide variety of military applications. The requirements for high dynamic range links have previously been demonst ...

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6. N141-014: Low Magnetic Signature Expendable Unmanned Aerial Vehicle (UAV) for Anti-Submarine Warfare (ASW)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a low magnetic signature, expendable Tier 1 Unmanned Aerial Vehicle (UAV) that can be launched from a P-8A or similar military aircraft via the sonobuoy launch system from high altitude, with the capability to carry a sensitive scalar magnetometer for Anti-Submarine Warfare (ASW) Magnetic Anomaly Detection (MAD) with the requirement that the inherent UAV magnetic noise shall not ...

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7. N141-015: Low Profile antenna for Multi-Band (X, Ku, and Ka SATCOM) including potential option for Ku band Tactical Common Data Link (TCDL)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a low-profile, lightweight, high bandwidth Multi-Band (X, Ku, and Ka SATCOM) including potential option for Ku band Tactical Common Data Link (TCDL) with the same effective radiated power as standard size antennas. DESCRIPTION: There is a need for a low profile antenna for Multi-Band (X, Ku, and Ka SATCOM) including potential option for Ku band Tactical Common Data Link (TCD ...

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8. N141-016: Persistent Maritime Target Tracking Using Automated Target Fingerprinting and Discrimination

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a Feature Aided Tracking and Discrimination (FAT-D) approach operating under the control of an automated resource manager to provide persistent target tracking (across extended breaks and even over multiple missions) of vessels (including ships and small boats) along with non-geometric discrimination capabilities to separate small boats,

semi-submersibles and periscope masts fro ...

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9. N141-017: Environmentally Friendly Alternative Synthesis and Process to Manufacture Cost-Effective Hexanitrohexaazaisowurtzitane (CL-20)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate a viable alternate synthesis route for Hexanitrohexaazaisowurtzitane (CL-20) with efforts directed to lowering production costs for CL-20 bulk use. DESCRIPTION: CL-20 is the most energy-dense explosive material. CL-20 surpasses current state of the art nitramines, cyclotetramethylene-tetranitramine (HMX) and cyclotrimethylene-trinitramine (RDX) in performance ...

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10. N141-018: Efficient 3-D Imaging of Vessels for Improved Classification and Persistent Tracking

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop, implement and assess a true 3-D Inverse Synthetic Aperture Radar (ISAR) algorithm for maritime surveillance and identification of ships and small boats. DESCRIPTION: Inverse Synthetic Aperture Radar (ISAR) processing relies on both radar processing leveraging optimal orientations and angular rates, but also motion prediction within the processing. Typical 2-D ISAR processing ...

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